

# D2L20U

## Fast Recovery Diodes

200V, 1.5A

### Feature

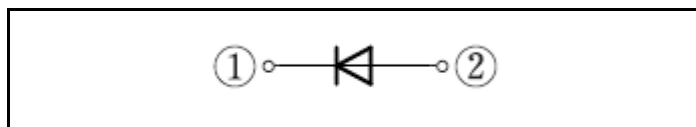
- High Recovery Speed
- Pb free terminal
- RoHS:Yes

### OUTLINE

Package (House Name): AX078



### Equivalent circuit



### Absolute Maximum Ratings (unless otherwise specified : Tl=25°C)

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	T <sub>stg</sub>		-40 to 150	°C
Junction temperature	T <sub>j</sub>		-40 to 150	°C
Repetitive peak reverse voltage	V <sub>RRM</sub>		200	V
Average forward current	I <sub>F(AV)</sub>	50Hz sine wave, Resistance load, On glass-epoxy substrate, Tl=125°C *	1.5	A
Average forward current	I <sub>F(AV)</sub>	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C *	1.3	A
Surge forward current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1 cycle, Peak value, Tj=25°C	40	A

\* :See the original Specifications

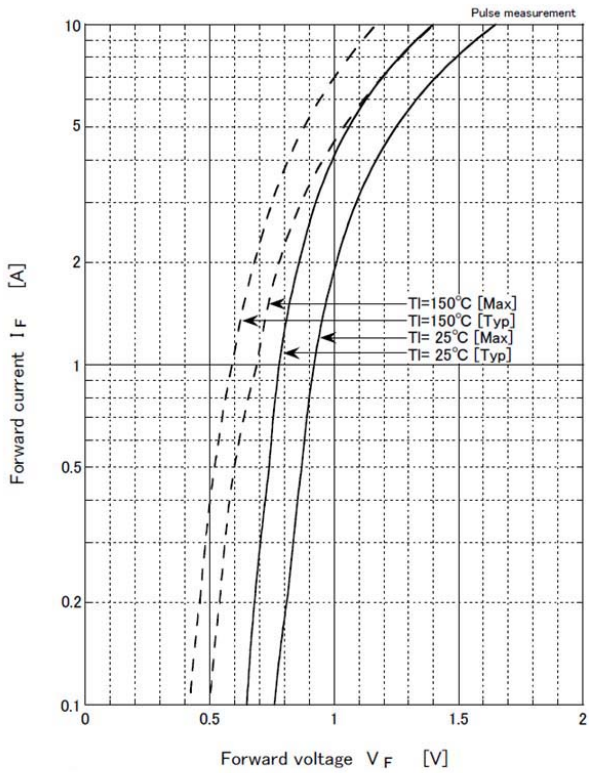
**Electrical Characteristics** (unless otherwise specified : Tl=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	$V_F$	$I_F=1.5A$ , Pulse measurement			0.98	V
Reverse current	$I_R$	$V_R=200V$ , Pulse measurement			10	$\mu A$
Reverse recovery time	$t_{rr}$	$I_F=0.5A$ , $I_R=1.0A$ , $0.1I_R$			35	ns
Thermal resistance	$R_{th(j-l)}$	Junction to lead, On glass-epoxy substrate *			17	$^{\circ}C/W$
Thermal resistance	$R_{th(j-a)}$	Junction to ambient, On glass-epoxy substrate *			105	$^{\circ}C/W$

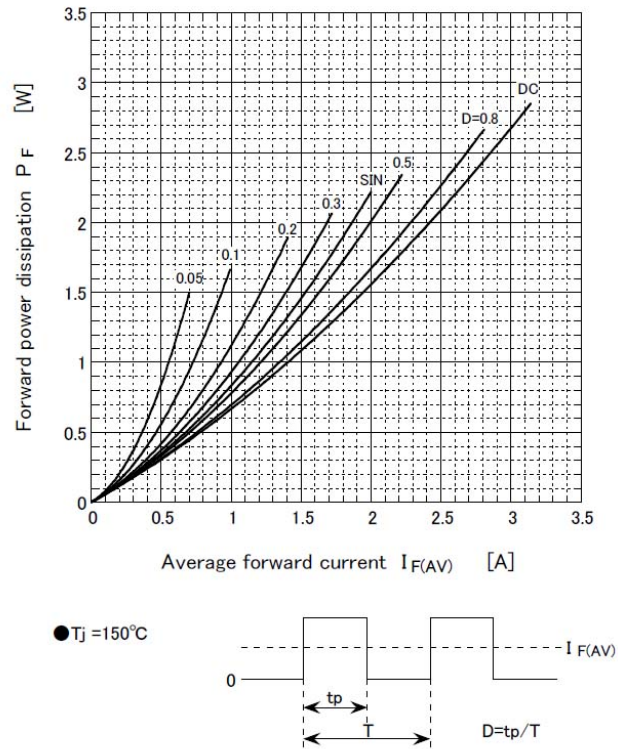
\* :See the original Specifications

# CHARACTERISTIC DIAGRAMS

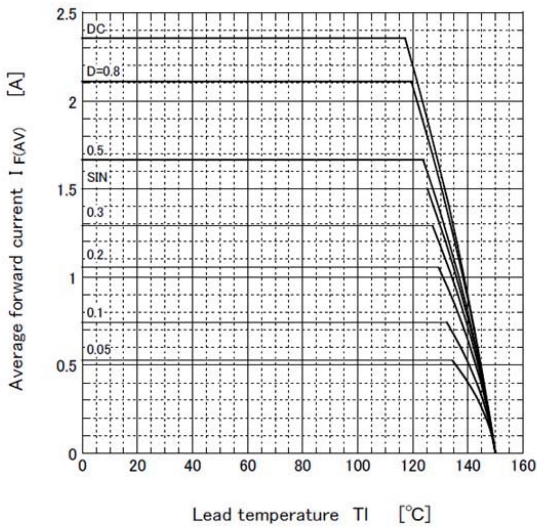
Forward voltage



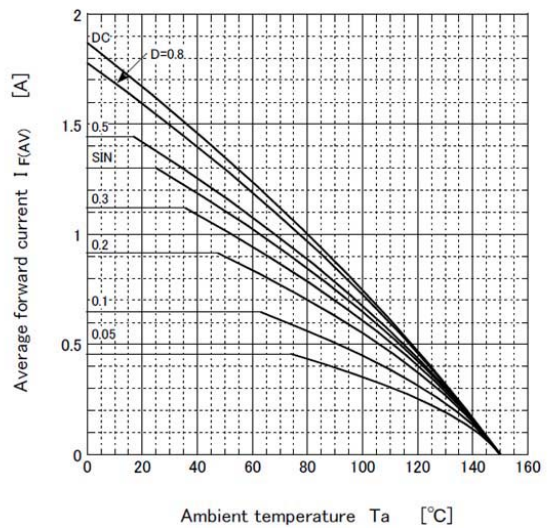
Forward power dissipation



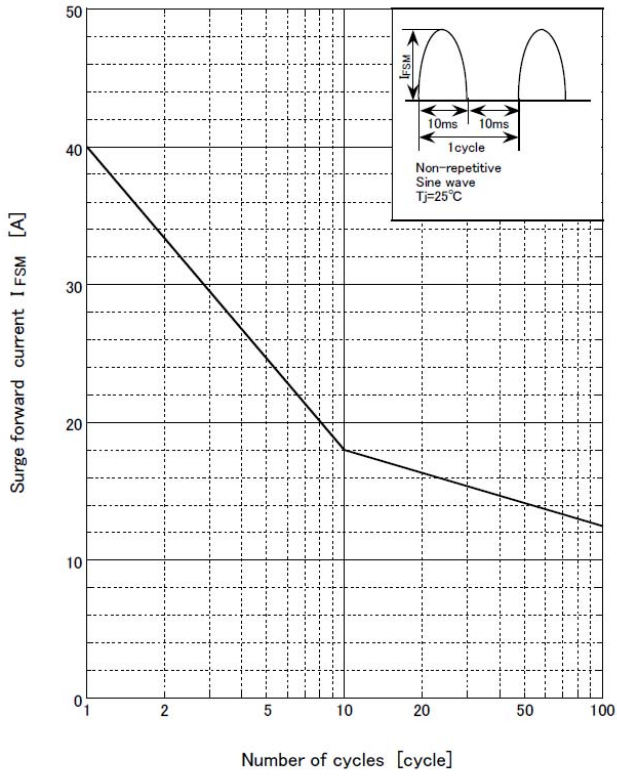
Derating curve



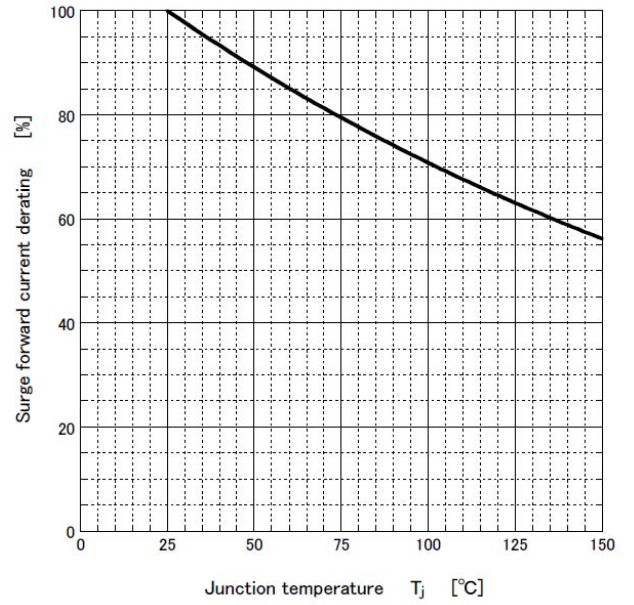
Derating curve



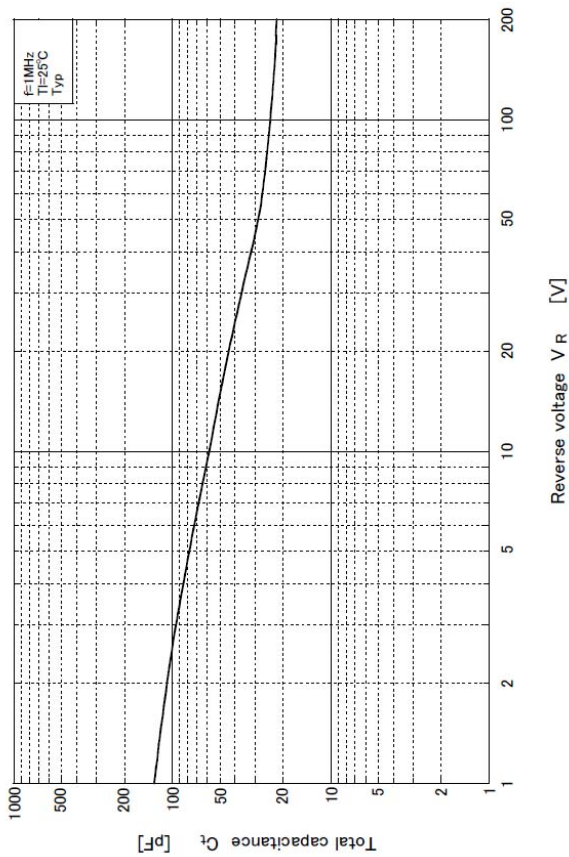
Surge forward current capability



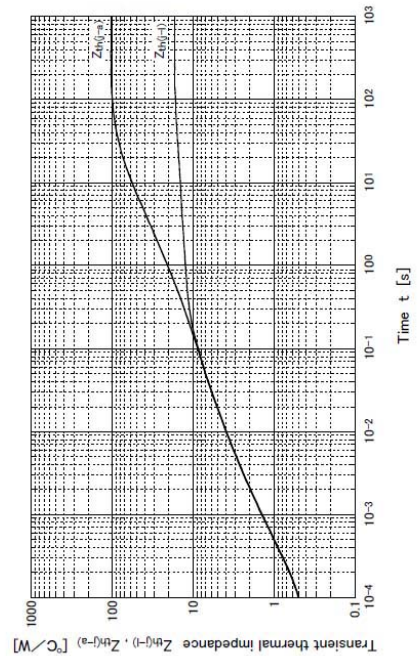
Surge forward current derating vs Junction temperature



Total capacitance



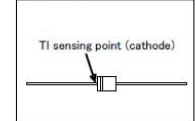
Transient thermal impedance



Substrate detail

Type	Glass-epoxy
Size	90mm × 150mm
Thickness	1mm
Conductor thickness	35μm
Pattern area	305.5mm <sup>2</sup>

TI sensing point



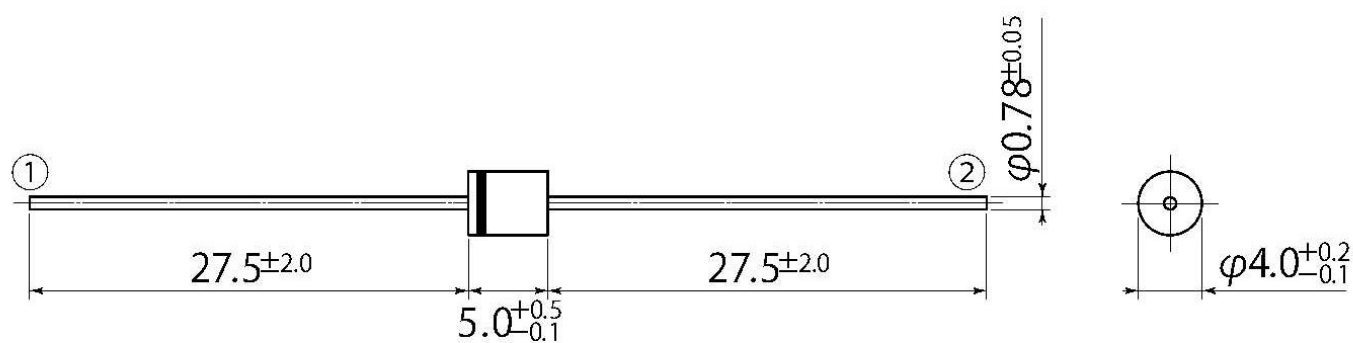
# Outline Dimensions

unit:mm

scale: 2/1

## A4

JEDEC Code	—
JEITA Code	—
House Name	AX078





## Notes

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